

$$A_{in} = 5000 \times 100$$

$$W_1 = 128 \times 5000$$

$$b_1 = 128 \times 1$$

$$A_1 = 128 \times 100$$

$$W_{out} = 5000 \times 128$$

$$b_{out} = 5000 \times 1$$

$$A_{out} = 5000 \times 100$$

(1)